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FM UCLLL WILLIAM L ROBISON L-453 LIVERMORE CA

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INFO RUHVAAA/ENEWETAK RADIOLOGICAL SURVEILLANCE PROGRAM MANAGER ENEWETAK ATOLL

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TO EVALUATE THE POTENTIAL DOSE TO POPULATION THROUGH THE FOOD CHAIR IS IS ESSENTIAL TO HAVE INFORMATION ON THE SOIL CONCENTRATIONS AS A FUNCTION OF DEPTH. I RECOMMEND THAT SOIL SAMPLES BE TAKEN, AFTER CLEAN-UP OF THE NORTHERN ISLANDS AT ENEWETAK ATOLL ACCORDING TO THE FOLLOWING PROFILE SEQUENCE:

0-5 CM

5-10 CM

10-15 CM

15-25 CMM

25-40 CM

40-60 CM /OPTIONAL/

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FOLDER FY 17 79 GENERAL CORRESPONDENCE

PAGE 2 RHEGLLL3588 UNCLAS

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ANALYSIS OF THESE SAMPLES FOR 137CS, 90SR, 241AM AND 239 PLUS 240PU WOULD LEAD TO A DATA BASE WHICH WOULD BE MOST USEFUL FOR ASSESSING DOSES ASSOCIATED WITH USE OF THE NORTHERN ISLANDS PORT CLEAN-UP.

AS MANY OF THESE SAMPLES AS POSSIBLE SHOULD BE TAKEN ON THE NORTHERN ISLANDS OF ALICE THROUGH URSULA. THE FOLLOWING IS A RECOMMENDED PRIORITY FOR SAMPLING OF THE ISLANDS:

2. AOMON /SALLY/

3. BIJIRE /TILDA/

4. BOKEN /IRENE/

5. MIJIKADREK /KATE/

6. LUJOR /PEARL/

7. KIDRINEN /LUCY/

8. BOKENELAB /MARY/

9. LOUJ /DAISY/

: 10. ELLE /NANCY/

11. BOK OMBAKA /BELLE/

12. KIRUNU /CLARA/

13. BOKOLUO /ALICE/

14. LOJWA /URSULA/

(PAGE 3 RHEGLLL3588 UNCLAS \mathbf{C} THE EMPHASIS OF COURSE SHOULD BE ON THOSE ISLANDS THAT HAVE BEEN SUBJECT TO SOIL REMOVAL OR REDISTRIBUTION. ((THE 0-5 CM SAMPLE OF EACH PROFILE WILL PROVIDE THE DATA NEEDED TO (EVALUATE THE RESUSPENSION/INHALATION PATHWAY: THE REST OF THE PROFILE SAMPLES WILL BE USED IN CONJUNCTION WITH THE 0-5 CM SAMPLE TO EVALUATE THE TERRESTRIAL FOOD CHAINS. END REF LSO/BA-3583 (ВΤ #3588

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•	UNCLAS NONWE BRUCE CHURCH HICKAN	H SENDS TO	TN: TOM M	CCRAW, MD.	ROGER RAY, LV	ROGER RAY,
	PRESENT PERSONNEL - PAGE 2 RUHHU EQUIPMENT - MENT (ALT 2) TIONS THAT S ALT 1 S SR-90, CS-13 PERSONNEL - PAGE 2 RUHHU EQUIPMENT -	PHAS EXAMED HAS EXAMED FOLLOWING SHOULD BE SUSTAINE STAINE AND ONE AND ONE AND ONE AND OPERAT	78 SMAE S INED THE DEQUIP (A NG IS A P CONSIDERE WAY TO TR D PRODUCT PU-239, MANPOWER ICLAS UTOMATIC IOURS. ION - ASS	UBJECT FROM SOIL SAMPLE LT 1) AND WIRESENTATION D BEFORE LAUIAL TEST AND ION RATE - 240 CHEMISTRY SAMPLE CHANGE UME LAB ROLL	THRU PUT CAPAE XPANDED PERSONN OF ALTERNATIVE JNCHING A SAMPL ALYTICAL PROCEC 12 SAMPLES/DAY 1 SHIFT. GER UNIT (AVAIL	NEL AND EQUIP- IS AND QUES- ING PROGRAM DURES.
	SOME INCREASE BAL INCREASE BAL ALT 2 : SR-90, CS-13 PERSONNEL -	SE OF LAB L MILL CA SUSTAINE 37, AM-241 ADD 2 CHE ADD 1 COU	SUPPLIES PACITY IN D PRODUCT PR-239 M TECHS - INT TECH -	WILL BE REQUESTED FROM RATE - 2 240. CHEMISTRY 2 COUNTING 3	24 SAMPLES/DAY 2 SHIFTS.	
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PAGE 02

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(TOTAL OF 3 SYSTEMS IN LAB).

- ADD 1 MORE GAMMA COUNTING SYSTEM (USE IMP SPARE SYSTEM). EIGHTEEN MONTHS OF OPERATION - ASSUME LAB ROLLUP APR 80. TOTAL PRODUCTION - 11200 SAMPLES.

INCREASE IN LAB SUPPLIES.

INCREASE BALL MIL CAPACITY IN PREP LAB.

FOR THE 14 ISLANDS LISTED IN REFERENCED TWX, A 50 METER GRID YIELDS 1053 LOCATIONS (FOR INFORMATION NV-140 LISTS 76 PROFILE PAGE 3 RUHHDNA0501 UNCLAS

LOCATIONS FOR THESE 14 ISLANDS). REF TWX SPECIFIES PROFILE SAMPLING ONLY AND WITH 6 INCREMENTS PER PROFILE EQUALLING 6318 TOTAL SAMPLES. COMPARE THESE NUMBERS TO POSSIBLE PRODUCTION RATES RAISES THE FOLLOWING QUESOIONS:

- 1. WHAT PROFILE LOCATION DENSITY IS ACCEPTABLE? (IS A GRID ACCEPT-ABLE?)
- 2. WHAT TRADE OFFS CAN BE MADE TO REDUCE SAMPLE LOAD (E.G. REDUCE NO. OF ISLANDS, N. OF CHEMICAL ANALYSIS REQUIRED PER PROFILE)?

 3. CAN INCREASED MANPOWER BE PROVIDED IN TIMELY MANNER (I.E. ALT 2)?
- 4. IS IT REASONALBE TO ASSUME LAB OPERATIONS UNTIL 1980?
 5. ARE ALL ORGANIZATIONS INVOLVED IN THE CLEANUP WILLING TO COMMIT THEMSELVES TO THIS NEW TASK?
 OTHER QUESTIONS RELATING ARE:
- 1. A METHOD IS NEEDED TO INTEGRATE OVER THE 10, 15 AND 20 CM INCREMENTS SPECIFIED IN THE PROFILE? SOME OPTIONS USE EXISTING ON-ISLAND EQUIPMENT AND TAKE A 5 CM (10 CM WIDE, 10 CM LONG) THICK SECTION FROM THE MIDDLE (TOP OR BOTTOM) OF THE LAST 3 LARGE IN-PAGE 4 RUHHDNA0501 UNCLAS

CREMENTS AND INTEGRATE OVER THE PROFILE MATHEMATICALLY OR DEVISE A METHOD OF SAMPLING THE INCREMENT INTACT WHICH INTEGRATES OVER THE ENTORE INCREMENT MECHANICALLY.

2. SHOULD CONSIDER SURFACE MEASUREMENT WORK OF IMP AND RELATED LAB WORK AS ESTIMATE OF SURFACE ACTIVITY FOR CS-137, AM-241 AND PU-239, 240. COVERAGE IS BETTER THEREFORESTATISTICS OFR ACTIVITY DISTRIBUTION WOULD BE BETTER - PRELIMINARY WORK HERE INVESTIGATING THE CORRELATION BEOWEEN VAIOUS ISOTOPES AND SR-90 FROM NVO-140 DATA SUGGESTS THIS METHOD MIGHT BE USED TO FILL IN DATA GAPS, PARTICULARLY FOR SURFACE INFORMATION.

FINALLY - IT IS NECESSARY TO SCOPE THE SIZE OF THE OVERALL TASK AS ILLUSTRATED ABOVE SO THAT SUFFICIENT PLANNING CAN BE MADE TO FIT IT

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INTO THE CLEANUP PLAN. THESE DECISIONS SHOULD BE MADE SOON. BT #0501

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